Name : _____ Score : _____

Distance Formula - Triangles

Sheet 2

1) Show that the points L(5, 0), M(1, 8) and N(6, 10) form a scalene triangle.

2) Show that the points right triangle.

3) Show that the points l triangle.

4) Prove that the points F(8, –1), G(9, –3) and H(7, –4) are the vertices of an isosceles triangle.

Name : _____ Score : _____

Answer key

Sheet 2

Distance Formula - Triangles

1) Show that the points L(5, 0), M(1, 8) and N(6, 10) form a scalene triangle.

LM = $\sqrt{80}$ units ; MN = $\sqrt{29}$ units ; NL = $\sqrt{101}$ units

LM ≠ MN ≠ NL

The points L(5, 0), M(1, 8) and N(6, 10) form a scalene triangle.

2) Show that the points right triangle.

ST = $\sqrt{9}$ units

ST^2 = 9 units ;

$ST^2 + US^2 = TU$

The points S(–6,

3) Show that the points l triangle.

XY = $\sqrt{32}$ unit

XY = YZ = ZX

The points X(–2 riangle.

4) Prove that the points F(8, –1), G(9, –3) and H(7, –4) are the vertices of an isosceles triangle.

FG = $\sqrt{5}$ units ; GH = $\sqrt{5}$ units ; HF = $\sqrt{10}$ units

FG = GH

The points F(8, –1), G(9, –3) and H(7, –4) form an isosceles triangle.